APR 1 3 2005
PATENT & TRADEMARK OFFICE

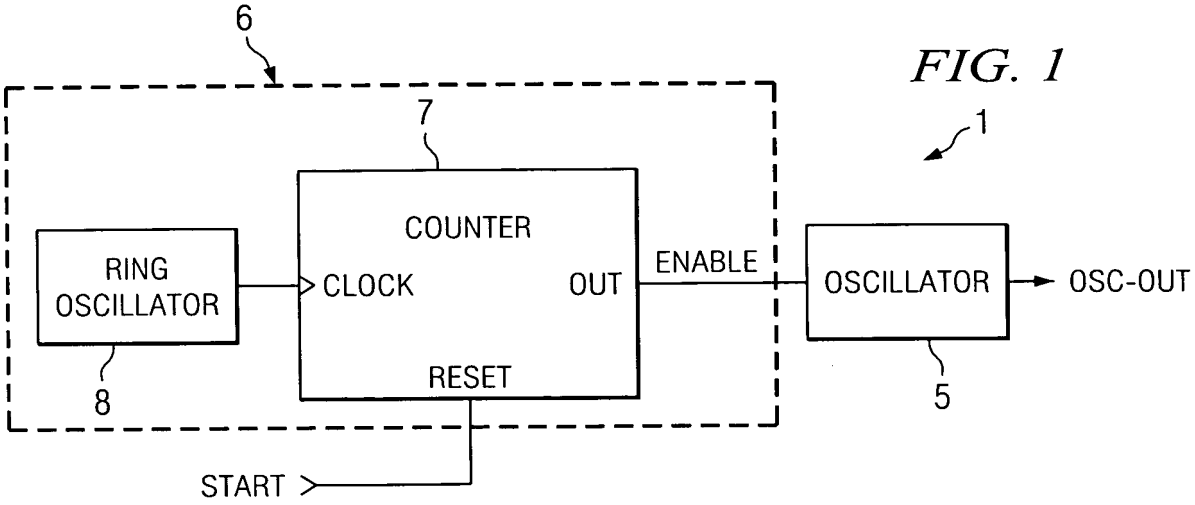


FIG. 1

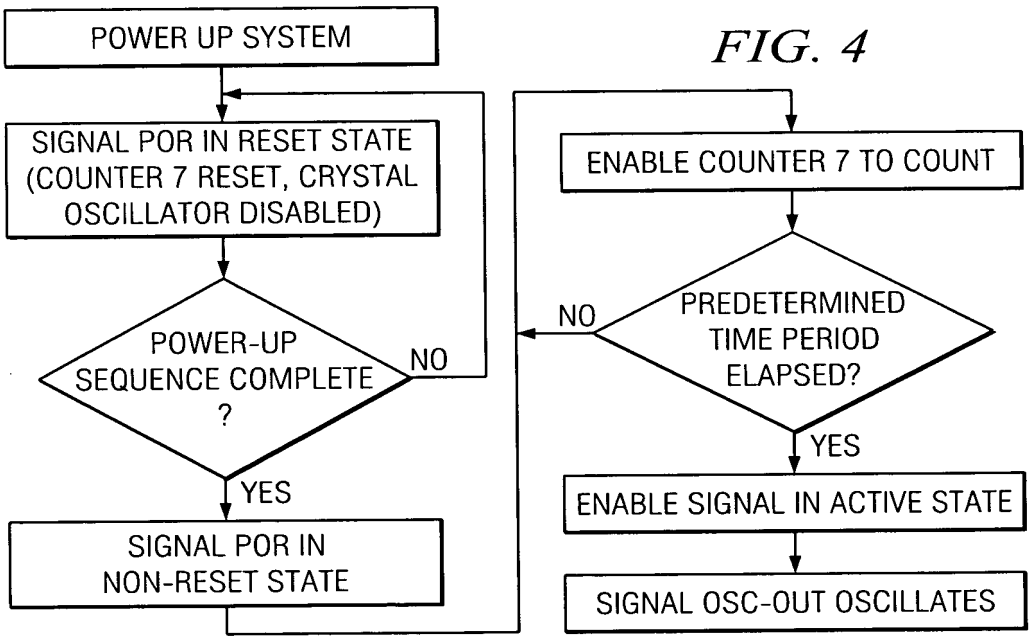


FIG. 4

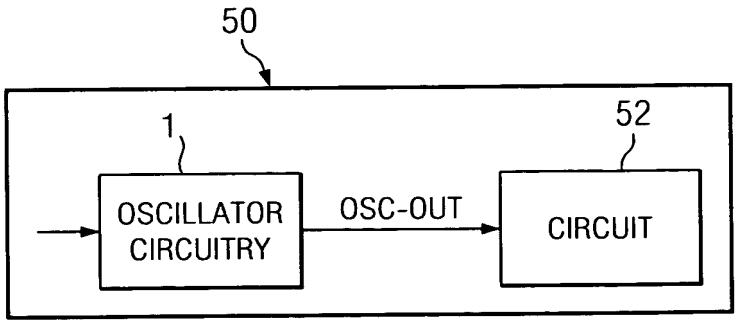
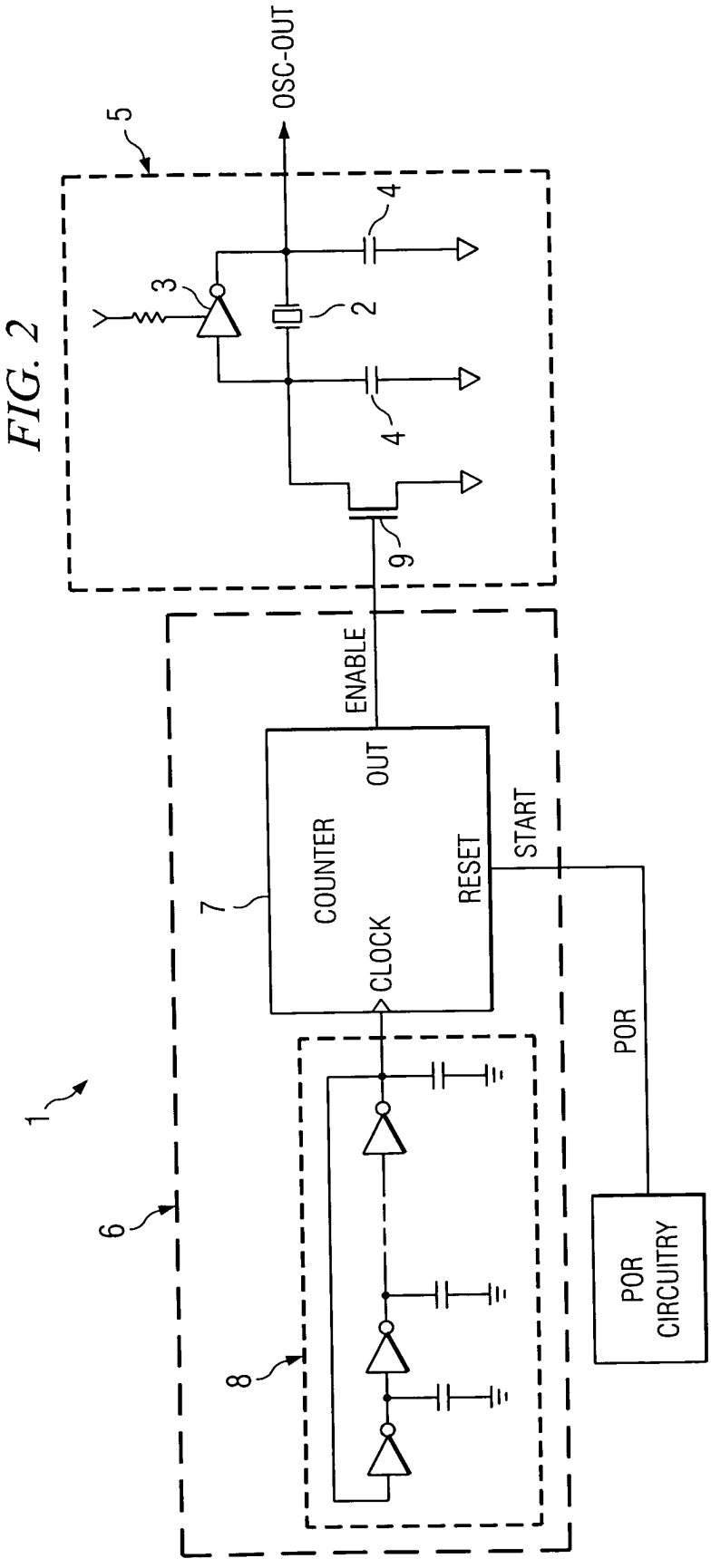


FIG. 5

FIG. 2


OSC-OUT
5
4
3
2
4
9
ENABLE
OUT
COUNTER
7
RESET
START
CLOCK
POR
1
6
8
POR
CIRCUITRY

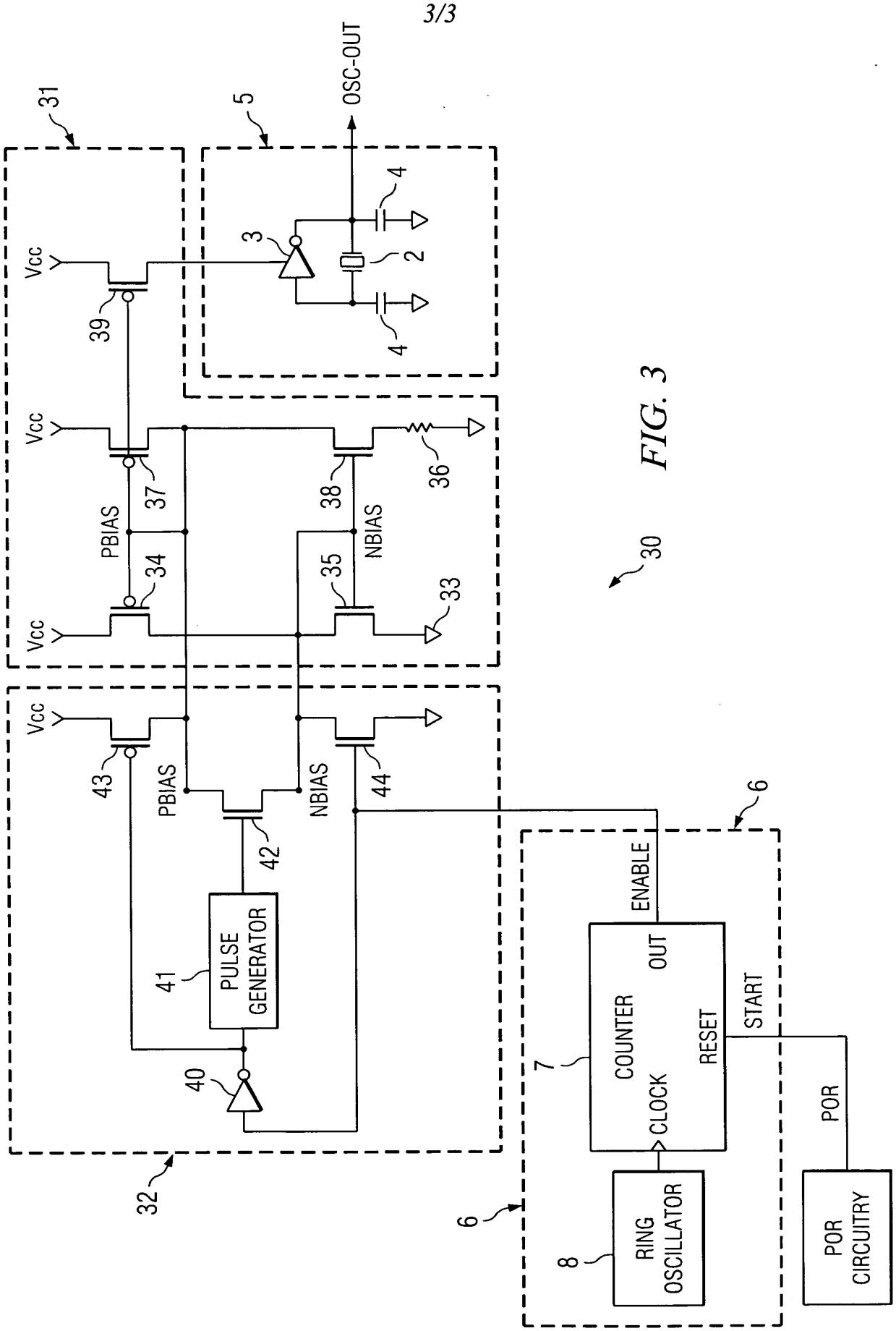

OSC-OUT
31
5
4
3
2
4
Vcc
39
Vcc
PBIAS
37
38
NBIAS
36
34
35
33
Vcc
30
Vcc
43
PBIAS
NBIAS
44
6
42
ENABLE
41
PULSE GENERATOR
OUT
7
COUNTER
RESET
START
40
CLOCK
POR
32
6
8
RING OSCILLATOR
POR CIRCUITRY

FIG. 3